

## Datasheet: MCA116F

**BATCH NUMBER 169047**

<b>Description:</b>	MOUSE ANTI HUMAN HLA B27:FITC
<b>Specificity:</b>	HLA B27
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HLA-ABC-m3
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/1ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from ascites		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.1% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	0.2% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	50 ug/ml		

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**Immunogen** Immune complex precipitated from an HLA-B27 positive cell line by anti HLA antibody and staphylococcal protein A.

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**External Database Links**

**UniProt:**

[P03989](#)    [Related reagents](#)

**Entrez Gene:**

[3106](#) HLA-B    [Related reagents](#)

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**Synonyms** HLAB

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**RRID** AB\_322098

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**Specificity** **Mouse anti Human HLA B27 antibody, clone HLA-ABC-m3** recognizes the HLA-B27 alloantigen and reacts with the peripheral blood lymphocytes of 47/47 individuals conventionally typed as HLA-B27 + and precipitates cell surface molecules of 43 and 12 kDa, corresponding to the HLA Class 1 heavy chain and beta 2 microglobulin.

Scatchard affinity analysis shows that Mouse anti Human HLA B27 antibody, clone HLA-ABC-m3 has a higher affinity for HLA-B27 ( $9.7 \times 10^8 \text{M}^{-1}$ ) than for HLA B7 ( $9.5 \times 10^7 \text{M}^{-1}$ ).

Flow cytometry - subjects expected fluorescence intensity:

Heterozygous HLA-B27+ = Strong.

Homozygous HLA-B27+ = Strong.

Heterozygous HLA-B7+ = Faint.

Non B27, Non B7 = Negative.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label  $10^6$  cells or 100ul of whole blood.

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**References**

1. Orr, K. *et al.* (1994) Utilization of commercial antisera and flow cytometry in HLA-B27 typing. [Cytometry \(Comm. Clin. Cytometry\) 18: 17-20.](#)
  2. Levering, W.H. *et al.* (2003) Flow cytometric HLA-B27 screening: cross-reactivity patterns of commercially available anti-HLA-B27 monoclonal antibodies with other HLA-B antigens. [Cytometry B Clin Cytom. 54: 28-38.](#)
  3. Mandic, R. *et al.* (2004) Comparison of surface HLA class I levels in squamous cell carcinoma cell lines of the head and neck. [Anticancer Res. 24 \(2B\): 973-9.](#)
  4. Meyer, O. *et al.* (2006) A simple and practical agglutination assay for human leucocyte antigen-B27 typing. [Vox Sang. 91 \(1\): 77-80.](#)
  5. Goodall, J.C. *et al.* (2007) Does HLA-B27 influence the monocyte inflammatory response to lipopolysaccharide? [Rheumatology \(Oxford\). 46: 232-7.](#)
  6. Meyer, O. *et al.* (2008) Application of the particle gel agglutination assay in the typing of single human leucocyte antigens. [Tissue Antigens. 71 \(2\): 157-9.](#)
  7. Marroquin, B. O *et al.* (2015) HLA-B27-Homodimer-Specific Antibody Modulates the Expansion of Pro-Inflammatory T-Cells in HLA-B27 Transgenic Rats. [PLoS One. 10 \(6\): e0130811.](#)
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**Storage** Store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA116F>  
10041

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA929F\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M405785:220916'

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